

Air Quality Pollutant Estimates

Cumberland Piedmont Network

Park	Ozone					NADP		Visibility	
	2nd_Hi_1hr	4th_Hi_8hr	#8hr > 85	#1hr > 100	Sum06_3_Mo	Total_S_kg/Ha	Total_N_kg/Ha	Rbext_Clear	Rbext_Hazy
Abraham Lincoln Birthplace NHS	116.0	88.3	7.8	15.5	28.9	4.60	3.70	39	194
Carl Sandburg Home NHS	108.9	86.6	8.2	12.4	27.4	4.65	3.40	18	193
Chickamauga & Chattanooga NI	117.2	90.4	10.5	26.6	30.2	4.34	3.22	33	201
Cowpens NB	113.4	88.2	8.3	16.2	31.4	4.26	3.17	23	190
Cumberland Gap NHP	112.9	87.4	10.3	21.4	22.7	4.38	3.28	30	200
Fort Donelson NB	113.4	87.3	7.6	15.4	28.0	2.22	1.88	37	195
Guilford Courthouse NMP	117.5	89.2	9.5	19.4	31.4	3.51	2.86	34	186
Kings Mountain NMP	117.3	90.1	9.8	22.6	30.0	4.14	3.17	26	188
Little River Canyon NPRES	115.6	89.4	9.3	20.7	28.3	3.85	2.91	36	202
Mammoth Cave NP	115.6	88.4	7.8	15.7	29.5	3.98	3.17	39	194
Ninety Six NHS	109.5	85.4	6.5	11.8	26.3	3.86	2.93	28	184
Russell Cave NM	115.6	89.4	9.3	20.7	28.3	3.85	2.91	36	202
Shiloh NMP	113.5	87.2	7.4	14.4	29.7	3.00	2.69	39	204
Stones River NB	114.0	88.6	8.6	18.2	29.3	3.24	2.56	37	199

Class: refers to an area's designation under the Clean Air Act

Ozone information represents 5-yr average of annual values from 1995-1999

2nd High 1 hr concentration (ppb): indicates peak values for ozone; old standard of 0.12 ppm (120 ppb) was based on 2nd hi, 1-hr average

4th high 8 hr concentration (ppb): new ozone standard of 0.08 ppm (80 ppb) is based on 4th hi, 8-hr average

#8 hours>85 ppb: indicates how often the area would be in violation of the new 8-hr standard of 0.08 ppm

hours> 100 ppb: high peaks in ozone concentration, as well as cumulative dose, contribute to vegetation injury

SUM06_3mon (ppm-hrs) - sum of hourly ozone concentration > 0.06 ppm (60 ppb) over 3 months (growing season), i.e., cumulative ozone dose

NADP information represents 6-yr average of annual values from 1995-2000

NADP deposition (kg/ha/yr): estimate of pollutants deposited to ecosystem by precipitation (NADP-National Atmospheric Deposition Program)

NADP Total S - sulfur from sulfate deposited by precipitation

NADP Total N - inorganic nitrogen (ammonium plus nitrate) deposited by precipitation

Visibility IMPROVE information represents 5-yr average of annual values from 1995-1999

bextClear - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average clear day

bextHazy - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average hazy day